



ATTACHMENT A

(currently amended) A process for preparing supported, titanized chromium catalysts, which comprises the following steps:

- A) bringing a support material into contact with a protic medium having a water content less than 20% by weight and comprising a titanium compound and a chromium compound;
- B) optionally, removing the protic medium, thereby forming a precatalyst;
- C) optionally, calcining the precatalyst obtained after step B); and
- D) optionally, activating the precatalyst obtained after step B) or C) in an oxygen-containing atmosphere at from 400°C to 1100°C.

2. (previously presented) The process as claimed in claim 1, wherein the support material is a silica gel.

3. (previously presented) The process as claimed in claim 1, wherein the chromium compound is an inorganic chromium compound.

4. (previously presented) The process as claimed in claim 3, wherein the inorganic chromium compound is chromium(III) nitrate nonahydrate.

5. (currently amended) The process as claimed in claim 1, wherein the titanium compound is titanium

tetraisopropoxide, titanium tetra-n-butoxide or a mixture thereof of these two titanium compounds.

6. (previously presented) The process as claimed in claim 1, wherein the protic medium is methanol.

7. (currently amended) A catalyst system obtained by a process comprising:

A) bringing a support material into contact with a protic medium having a water content less than 20% by weight and comprising a titanium compound and a chromium compound;

B) optionally, removing the protic medium, thereby forming a precatalyst;

C) optionally, calcining the precatalyst obtained after step B); and

D) optionally, activating the precatalyst obtained after step B) or C) in an oxygen-containing atmosphere at from 400°C to 1100°C.

8. (currently amended) A process for preparing polyolefins comprising polymerizing or copolymerizing olefins in [[the]] presence of a catalyst system obtained by a process comprising:

A) bringing a support material into contact with a protic medium having a water content less than 20% by weight and comprising a titanium compound and a chromium compound;

B) optionally, removing the protic medium, thereby forming a precatalyst;

C) optionally, calcining the precatalyst obtained after step B); and

D) optionally, activating the precatalyst obtained after step B) or C) in an oxygen-containing atmosphere at from 400°C to 1100°C.

9. (currently amended) The process as claimed in claim 8, wherein ethylene or a monomer mixture ~~of at least one of comprising at least 50 mol% of ethylene and at least one C<sub>3</sub>-C<sub>12</sub>-1-alkenes C<sub>3</sub>-C<sub>12</sub>-1-alkene containing at least 50 mol% of ethylene is used for preparing the polyolefins as monomer(s) in the polymerization.~~



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**Inventors:** Wolfgang Rohde, Guido Funk, Andreas Haufe, Anke Bold, Neil Nadalin

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<b>Assignors:</b> <u>ROHDE, WOLFGANG</u>	<b>Exec Dt:</b> 06/10/2005
<u>FUNK, GUIDO</u>	<b>Exec Dt:</b> 06/10/2005
<u>HAUFE, ANDREAS</u>	<b>Exec Dt:</b> 06/10/2005
<u>BOLD, ANKE (MAIDEN HELD)</u>	<b>Exec Dt:</b> 06/10/2005
<u>NADALIN, NEIL</u>	<b>Exec Dt:</b> 06/10/2005

**Assignee:** BASELL POLYOLEFINE GMBH  
 BRUHLER STRASSE 60  
 50389 WESSELING, GERMANY

**Correspondent:** WILLIAM R. REID  
 BASELL USA INC.  
 INTELLECTUAL PROPERTY  
 912 APPLETON ROAD  
 ELKTON, MD 21921

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**Inventors:** Martin Schneider, Rainer Karer, Dieter Lilge, Volker Rauschenberger et al

**Title:** SUSPENDED CHROME CATALYST CONTAINING TITANIUM AND THE USE THEREOF FOR PRODUCING ETHYLENE HOMOPOLYMERS AND COPOLYMERS

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<b>Assignors:</b> <a href="#">SCHNEIDER, MARTIN</a>	<b>Exec Dt:</b> 05/16/2003
<a href="#">KARER, RAINER</a>	<b>Exec Dt:</b> 05/16/2003
<a href="#">LILGE, DIETER</a>	<b>Exec Dt:</b> 05/16/2003
<a href="#">RAUSCHENBERGER, VOLKER</a>	<b>Exec Dt:</b> 05/26/2003
<a href="#">ROSENDORFER, PHILIPP</a>	<b>Exec Dt:</b> 05/26/2003
<a href="#">WULFF-DORING, JOACHIM</a>	<b>Exec Dt:</b> 05/16/2003
<a href="#">SCHWEIER, GUNTHER</a>	<b>Exec Dt:</b> 06/25/2003
<a href="#">LUX, MARTIN</a>	<b>Exec Dt:</b> 06/05/2003
<a href="#">BAUER, PETER</a>	<b>Exec Dt:</b> 06/13/2003

**Assignee:** [BASELL POLYOLEFINE GMBH](#)  
BRUHLER STRASSE 60  
50389 WESSELING, GERMANY

**Correspondent:** KEIL & WEINKAUF  
HERBERT B. KEIL  
1350 CONNECTICUT AVE. NW  
WASHINGTON, DC 20036

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